

1.-36. (CANCELED)

37. (NEW) A lower leg protective apparel for one of chemical and biological noxiants, the lower leg protective apparel having a plurality of plies and comprising an outside leg part (1) and, disposed in the interior of the outside leg part (1), a laminate (2) which comprises a flexible, windproof and water-rejecting membrane (7) which forms the outer surface of the laminate (2) and which forms at least a barrier to biological noxiants, a carbon layer (8) which is disposed underneath the membrane (7) and which comprises carbon in fibrous or particulate form, and an inner textile ply (9) which is characterized in that the outside leg part (1) is fabricated from a plurality of cuts (4, 5, 6), the seams between the cuts (4, 5, 6) being sealed off by a waterproof material.

38. (NEW) The lower leg protective apparel according to claim 37, wherein the membrane (7), at least to some extent, additionally forms a barrier against liquid chemical noxiants.

39. (NEW) The lower leg protective apparel according to claim 37, wherein an inside leg part (3) is disposed as a further ply, underneath the laminate (2) composed of membrane (7), carbon layer (8) and textile ply (9).

40. (NEW) The lower leg protective apparel according to claim 37, wherein the plurality of plies (1, 2, 3) are bonded together.

41. (NEW) The lower leg protective apparel according to claim 40, wherein the plurality of plies (1, 2, 3) are sewn together.

42. (NEW) The lower leg protective apparel according to claim 41, wherein the plurality of plies (1, 2, 3) are sewn together at their upper ends and in a foot tip region.

43. (NEW) The lower leg protective apparel according to claim 37, wherein the membrane (7) is breathable.

44. (NEW) The lower leg protective apparel according to claim 37, wherein the membrane (7) comprises one of polyester, polyester and a mixture thereof.

45. (NEW) The lower leg protective apparel according to claim 37, wherein the membrane (7) is microporous.

46. (NEW) The lower leg protective apparel according to claim 45, wherein the membrane (7) comprises polytetrafluoroethylene.

47. (NEW) The lower leg protective apparel according to claim 46, wherein the pores have a size such that the pores are pervious to water vapor but the pores are resistant to permeation of biological and chemical noxiants.

48. (NEW) The lower leg protective apparel according to claim 37, wherein the carbon layer (8) comprises a fabric of one of woven and loop-drawingly knit material.

49. (NEW) The lower leg protective apparel according to claim 48, wherein an active surface area of a carbon layer (8) is in a range from 1000 to 1200 m²/g.

50. (NEW) The lower leg protective apparel according to claim 37, wherein a thickness of carbon layer (8) is in a range from 0.2 to 1.0 mm.

51. (NEW) The lower leg protective apparel according to claim 37, wherein the carbon layer (8) is impregnated.

52. (NEW) The lower leg protective apparel according to claim 51, wherein the impregnation comprises one of silver, copper, chromium, polytetrafluoroethylene and mixtures thereof.

53. (NEW) The lower leg protective apparel according to claim 37, wherein the membrane (7) is based on cellophane.

54. (NEW) The lower leg protective apparel according to claim 37, wherein the membrane (7) comprises one of polyvinyl alcohols, polyacrylamides or polyurethane.

55. (NEW) The lower leg protective apparel according to claim 37, wherein the carbon layer (8) is provided with active spherules of carbon.

56. (NEW) The lower leg protective apparel according to claim 37, wherein the carbon layer (8) comprises a fabric of activated carbon fibers.

57. (NEW) The lower leg protective apparel according to claim 56, wherein the carbon layer (8) comprises loop-drawingly knit activated carbon fibers.

58. (NEW) The lower leg protective apparel according to claim 37, wherein the outside leg part (1) comprises one of wool, cotton, silk, polyester, polypropylene, polyamide, polyacrylic and mixtures thereof.

59. (NEW) The lower leg protective apparel according to claim 37, wherein the textile ply (9) in the laminate (2) is one of a woven and a loop-formingly knit fabric.

60. (NEW) The lower leg protective apparel according to claim 39, wherein the inside leg part (3) is hydrophilic.

61. (NEW) The lower leg protective apparel according to claim 39, wherein the inside leg part (3) is made of manufactured fibers.

62. (NEW) The lower leg protective apparel according to claim 61, wherein the inside leg part (3) comprises one of polypropylene, polyamide, polyester and mixtures thereof.

63. (NEW) The lower leg protective apparel according to claim 39, wherein the inside leg part (3) is longer than the other plies, and a longer region is, on the upper side thereof, turned over at least one of the other plies.

64. (NEW) The lower leg protective apparel according to claim 39, wherein the inside leg part (3) is stitched with a fleecy spun yarn to at least one of the other plies (1, 2).

65. (NEW) The lower leg protective apparel according to claim 37, wherein the laminate (2) formed from the membrane (7), the carbon layer (8) and the textile ply (9) is fabricated from a plurality of cuts (4, 5, 6).

66. (NEW) The lower leg protective apparel according to claim 65, wherein the cuts comprise a sole part (6), a foot upper part (5) and a shaft (4).

67. (NEW) The lower leg protective apparel according to claim 39, wherein at least one of the outside leg part (1) and the inside leg part (3) are fabricated from a plurality of cut parts.

68. (NEW) The lower leg protective apparel according to claim 65, wherein the cuts (4, 5, 6) are joined together by one of a flatlock and a zigzag stitch.

69. (NEW) The lower leg protective apparel according to claim 37, wherein the seams are sealed by a seam-sealing tape comprising a waterproof material.

70. (NEW) The lower leg protective apparel according to claim 37, wherein the seams are sealed by a waterproof adhesive.

71. (NEW) The lower leg protective apparel according to claim 37, wherein the textile ply (9) is hydrophilic.